chris vandevelde

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summary of qualifications

- Recent programming experience in **Python**, **Javascript**, and **Java**, in **HTML/CSS**-based, **Android** and server environments.
- Strong interest in **Machine Intelligence**, **Natural-Language Processing**, and **Human-Computer Interaction**.
- Experience with the modern software development environment (version control, continuous integration, automated testing, etc.) in Mac, Linux, and Windows environments.
- Bilingual in **English** and **French**.

experience

apple
Speech Web Applications Engineer

San Jose, California
October 2015 - Present (Full-Time)

- Developing tools across the full stack to aid the Siri Speech team build a world-class automated speech recognition platform, working on servers in **Python** and **Java**, UIs in **HTML/CSS** and **Angular** with **Typescript**.
- Led development of a multi-user web application to drive the review of millions of words and their pronunciations by a team of linguists, aiding collaboration between speech-recognition and text-to-speech teams.
- Built the server component of a privacy-protecting research and distributed machine-learning platform used by tens of millions of devices, reducing model iteration time from months to days.

primal
Software Developer

Kitchener, Ontario
March 2015 - October 2015 (Full-Time)

- Contributed features and bug fixes on several **Scala** applications using **natural-language processing** and **machine-learning** techniques to measure document similarity, retrieve similar content, and delight the user with the experience.
- Collaborated with co-workers in an Agile programming environment with an emphasis on well-designed, peer-reviewed technical solutions, and fully-tested and thoroughly-reviewed code.

trendradius
Software & Machine Learning Developer

Kitchener, Ontario
July 2014 - March 2015 (Full-Time)

- Developed on a web-based application using **Node.js**, **Express**, and **MongoDB**, a front-end Javascript application based on **Backbone.js** and **Twitter Bootstrap**, and a backend processing application written in Java.
- Created intelligent **sentiment analysis** tool in Java using OpenNLP and SentiWordNet, and **feed-forward neural network** to suggest matches across text-based content collections.

- Led efforts to ensure **Continuous Integration** and Deployment across products, set up Jenkins CI server and testing using Mocha.js and JUnit, consolidated build processes using NPM and Maven.

triangulation device
App Developer and Programmer

Waterloo, Ontario

August 2014 - Present (Part-Time)

- Developed an **Android** client for a participatory sound art project, led by Professor Jessica Thompson, University of Waterloo.
- Used a variety of sensors (including microphone, GPS, accelerometer) to provide input to interface with an existing PureData backend.
- Created re-usable Bluetooth IPC layer and messaging library for data transfer between two Android clients.

canopy labs
Data-Mining & Machine Learning Developer

Toronto, Ontario

April 2013 - August 2013 (Full-Time)

- Fixed bugs and added features to the full stack of the Canopy Labs customer analytics platform throughout a series of inter-related applications.
- Worked in a variety of environments (both new and familiar) including Python, PHP, C++, JavaScript, HTML5/CSS, R, shell scripting on both Mac and Linux operating systems.
- Worked with a variety of software development tools including Git, FogBugz, JIRA, Scons, and Selenium.

square
Android Developer

San Francisco, California

Jan 2012 – April 2012 (Full Time)

Sept 2012 – Dec 2012 (Full Time)

- Helped develop and build features, and identify and fix bugs across both Square's Wallet and Register **Android** applications.
- Coded across the entirety of the application, from layout files and UI to helper libraries to backend logic, home-screen app widgets and more.
- Contributed to maintaining software quality via tests using Android testing frameworks Robolectric and Robotium.
- Worked primarily on OS X using **IntelliJ IDEA**, along with **git** and both **ant** and **maven** for building.

education

university of waterloo
Bachelor of Applied Sciences in Systems Design Engineering

Waterloo, Ontario

September 2008 – June 2014

Relevant Courses

- Pattern Recognition – Methods for classifying and intepreting measured data in groups.
- Machine Intelligence – Intelligent systems, artificial intelligence techniques.
- Simulating Neurobiological Systems – Neural computation, modelling techniques.
- Control Systems – Controls engineering, systems theory, PID contorl and action.
- Data Structures & Algorithms – Data structure and algorithm characteristics and use.

awards

university of waterloo
President's Scholarship

Waterloo, Ontario

September 2008